



Transelectrica

Compania Națională
de Transport
al Energiei Electrice

WE LEAD THE POWER

MARKET MONITORING REPORT

Market for Allocation of Cross-Border Capacities

April 2012

ANRE - Romanian Energy Regulatory Authority
HHI - Herfindahl-Hirschman Index
BRP - Balance Responsible Party
BM - Balancing Market
DAM - Day Ahead Market
TSO - Transmission System Operator
DU – Dispatchable Unit
PN – Physical Notification
NDC - National Dispatching Center
C1 – The market share of the largest market participant
C3 – Total market share of top 3 market participants
NPS – Minimum number of residual generators
TTC – Total Transfer Capacity
NTC – Net Transfer Capacity
ATC – Available Transfer Capacity

According to the Commercial Code, Transelectrica, the Romanian Transmission System Operator, operates and monitors the activity of 3 types of markets: Balancing Market, Ancillary Services Market and Market for Allocation of Cross-Border Capacities.

Using the records from the markets data bases, Transelectrica prepares daily, weekly and monthly monitoring reports. A part of the data included in these reports (those data which are not confidential) is published on the websites **www.transelectrica.ro**

General Remarks

- According to the agreements between Transelectrica and neighbors for year 2012 :
 - ✓ on the Bulgarian border, the bilateral coordinated allocation is done for 100% of total capacity:
 - by ESO EAD for long term auctions;
 - by Transelectrica for daily and intra-day auctions. At daily and intra-day auctions it is applied the “netting” principle.
 - ✓ on the Hungarian border, the bilateral coordinated allocation, is done for 100% of total capacity:
 - by Transelectrica daily auctions and intra-day auctions;
 - by MAVIR long term auctions. At daily and intra-day auctions it is applied the “netting” principle.
 - ✓ on the Serbian border, long term auctions for 50% of total net transfer capacity are held by Transelectrica, the remaining of 50% being allocated by the neighboring TSO.
- Starting with March 2010 auctions are held on Damas platform, with euro currency trading.
- Long term auction results on the Bulgarian border (offered prices, auction prices, requested and allocated capacities) are provided by the Bulgarian TSO.
- The intra-day allocation is done in two auction sessions for time intervals: 00:00-12:00 and 12:00-24:00.
- In April, auctions were held for :
 - ✓ export Hungary (01.04 – 30.04.2012);
 - ✓ import Hungary (01.04 – 20.04.2012, 21.04 – 30.04.2012);
 - ✓ export Serbia (01.04 – 12.04.2012, 13.04 – 30.04.2012);
 - ✓ import Serbia (01.04 – 30.04.2012);
 - ✓ export Bulgaria (01.04 – 30.04.2012);
 - ✓ import Bulgaria (01.04 – 22.04.2012, 23.04 – 30.04.2012);
 - ✓ import Ukraine (01.04 – 30.04.2012).

General Remarks

- The requested capacity on Bulgarian border is not detained by the Romanian TSO.
- Usage of allocated capacity on Ukrainian and Moldavian border is restricted by Ukrainian TSO agreement and respectively by the approval of the distribution operator of the passive consumption islands.
- Following ESO EAD request, it was bilaterally agreed between Romanian and Bulgarian TSOs to increase NTC values on the border, as follows:
 - on Bulgaria – Romania border direction, NTC value became 300 MW between 02 – 22.04.2012 (50 MW more than the value used on monthly auction) and between 23 - 30.04.2012 (100 MW more than the value used on monthly auction);
 - on Romania – Bulgaria border direction, NTC value became 350 MW between 02 - 15.04.2012 (50 more than the value used on monthly auction).
 - This supplementary capacity was offered to the daily and intraday auctions. An announcement of this modification was published on www.transelectrica.ro (Transparency section/ Capacity Auction and Use data / Details on TTC, TRM, NTC, AAC and ATC for each capacity allocation session/ NTC annual and monthly values).

Market for Allocation of Cross-Border Capacities

Monthly auction. Results of 01 - 30 April 2012

	Prices [euro/MW/h]	Capacities [MW]						
	Results	TTC*	NTC*	ATC	AAC	Requested	Alocated	Final Rights**
Hungary export								
01 - 30 April 2012	0.19	500	400	205	195	475	205	400
Hungary import								
01 - 20 April 2012	0.27	400	300	155	145	587	155	300
21 - 30 April 2012	0.27	450	350	205	145	587	202	347
Bulgaria export								
01 - 30 April 2012	0.07	400	300	110	190	-	110	300
Bulgaria import								
01 - 22 April 2012	2.52	350	250	100	150	-	100	250
23 - 30 April 2012	2.52	300	200	50	150	-	50	200
Serbia export								
01 - 12 April 2012	0.37	700	600	225	75	445	225	600
13 - 30 April 2012	0.46	750	650	250	75	445	250	650
Serbia import								
01 - 30 April 2012	0.17	400	300	100	50	305	100	299
Ukraine export								
01 - 30 April 2012	-	150	50	0	50	-	-	50
Ukraine import								
01 - 30 April 2012	0.86	200	100	50	50	140	50	100
Moldavia export								
01 - 30 April 2012	-	-	-	-	-	-	-	-
Moldavia import								
01 - 30 April 2012	-	175	175	0	175	-	-	175

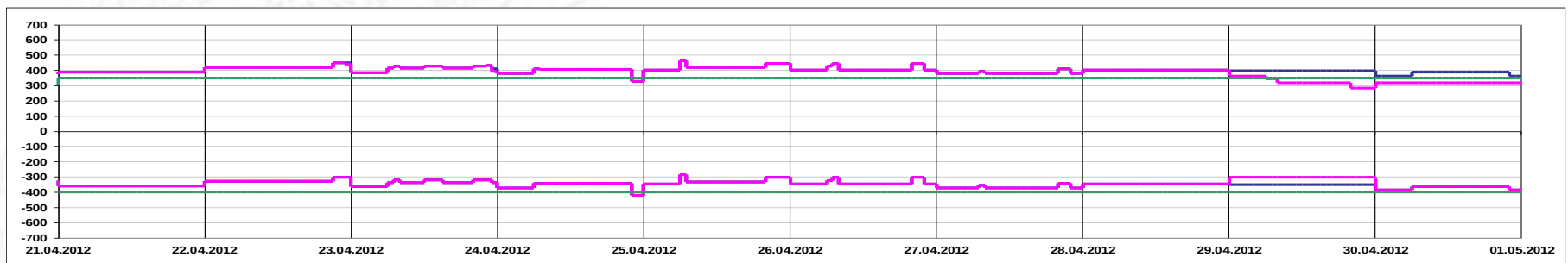
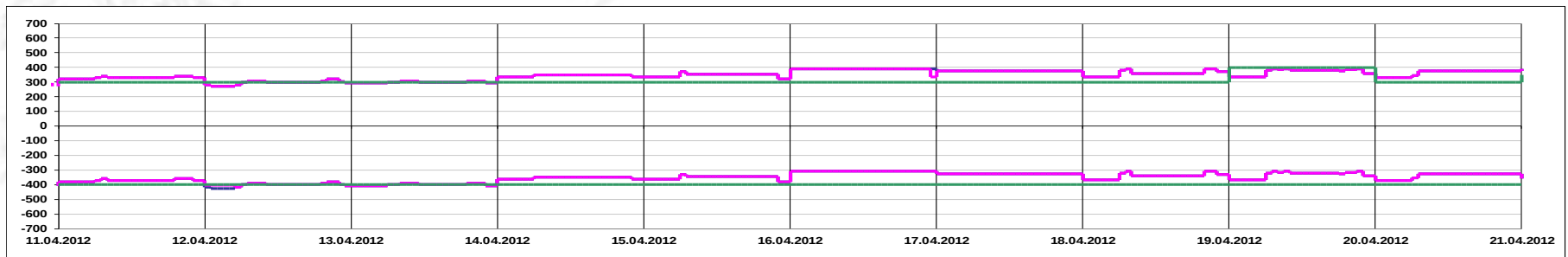
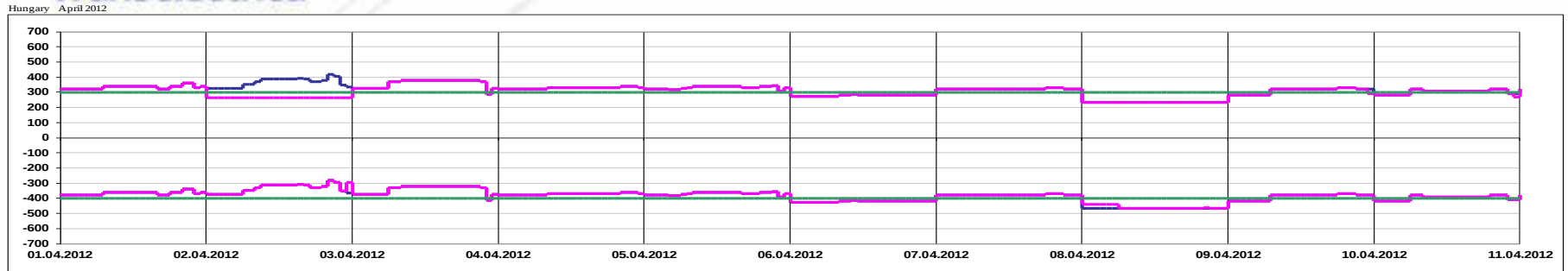
** total values

*** final rights = monthly allocated capacities + annual allocated capacities (border and direction total values) after withdrawals.

Note: Values of ATC, AAC, Requested and Allocated capacities on Serbian border are related to auctions organized by Romanian TSO

Market for Allocation of Cross-Border Capacities

Daily Auctions on Romanian – Hungarian border



Offered Capacity on Daily Auction Import (+) / Export (-) [MW]

Allocated Capacity on Daily Auction Import (+) / Export (-) [MW]

Net Transfer Capacity (NTC) Import (+) / Export (-) [MW]

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Market for Allocation of Cross-Border Capacities

Daily Auctions on Romanian – Hungarian border

Auction Price
[Euro/MW/h] - Export

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max	
1	0.21	0.21	0.21	0.21	0.21	0.21	0.20	0.26	0.26	0.26	0.26	0.26	0.20	0.20	0.20	0.20	0.16	0.20	0.26	0.26	0.26	0.26	0.26	0.26	0.20	0.26
2	0.05	0.05	0.05	0.05	0.05	0.05	0.10	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.60	1.55	1.55	1.55	1.55	0.75	0.00	1.55	
3	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.15	0.56	0.55	0.55	0.55	0.55	0.50	0.15	0.15	0.15	0.15	0.15	0.50	0.55	0.55	0.50	0.05	0.56	
4	0.03	0.03	0.03	0.03	0.03	0.03	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.13	0.13	0.05	0.05	0.05	0.13	
5	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.11	0.06	0.05	0.06	0.05	0.11	
6	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.45	0.05	0.45	
7	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.05	0.03	0.03	0.02	0.05	
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.00	0.00	0.05	0.05	0.05	0.05	
9	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.03	0.15	
10	0.30	0.30	0.30	0.30	0.30	0.30	0.50	0.30	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.75	0.50	0.50	0.50	0.30	0.75	
11	0.30	0.30	0.30	0.30	0.26	0.26	0.30	0.56	0.56	1.00	1.21	1.21	1.21	1.21	1.00	1.00	1.00	1.00	1.00	2.13	2.13	1.50	1.45	0.56	2.13	
12	0.00	0.00	0.00	0.00	0.00	0.03	0.03	0.06	0.20	0.20	0.06	0.06	0.06	0.06	0.06	0.20	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.03	0.20	
13	0.07	0.07	0.07	0.07	0.07	0.07	0.10	0.15	0.23	0.23	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.23	0.10	0.10	0.05	0.23	
14	0.55	0.55	0.31	0.31	0.31	0.31	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.30	0.30	0.55	0.55	0.55	0.15	0.15	0.15	0.30	0.15	0.05	0.55	
15	0.41	0.41	0.50	0.50	0.50	1.11	1.11	0.50	0.50	0.50	1.11	0.50	0.50	0.50	0.85	1.11	1.11	1.11	1.11	0.50	0.50	0.50	1.11	0.25	1.11	
16	3.00	2.52	2.52	2.52	2.52	3.55	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	4.17	4.17	4.17	3.69	3.00	5.00	
17	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.50	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	2.11	2.11	0.55	0.55	1.13	0.10	2.11	
18	0.61	0.61	0.61	0.61	0.61	0.61	0.79	1.76	1.76	1.76	1.76	1.76	2.22	1.76	2.22	1.76	1.76	1.76	1.76	1.76	1.76	1.76	0.79	0.05	2.22	
19	0.15	0.15	0.28	0.15	0.15	0.15	0.28	0.50	0.50	0.79	0.79	1.11	0.79	0.79	0.79	0.79	0.79	0.79	0.28	0.50	0.79	0.25	0.79	0.05	1.11	
20	0.15	0.15	0.15	0.15	0.15	0.15	0.16	0.16	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.16	0.16	0.25	0.16	0.16	0.25	0.15	0.25	
21	0.61	0.61	0.61	0.61	0.61	0.61	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	1.36	0.61	0.12	1.36	
22	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.10	0.10	0.03	0.10	0.10	
23	0.60	0.60	0.60	0.60	0.60	0.60	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.76	0.26	0.76	
24	0.50	0.50	0.50	0.33	0.50	0.50	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.66	0.66	0.33	0.33	0.50	0.33	0.66	0.76	0.33	0.30	0.76	
25	0.21	0.21	0.21	0.21	0.21	0.15	0.21	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.15	0.50	0.15	0.50	0.20	0.50	0.05	0.50	
26	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.25	0.25	0.25	0.03	0.25	
27	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.13	0.09	0.09	0.05	0.13	
28	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.05	0.07	0.05	0.07	
29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
30	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	

Hungary April 2012

Public

Market for Allocation of Cross-Border Capacities

Daily Auctions on Romanian – Hungarian border

Auction Price
[Euro/MW/h] - Import

day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max
1	0.23	0.23	0.23	0.23	0.23	0.23	0.05	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.05	0.05	0.03	0.03	0.03	0.03	0.03	0.03	0.23
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.20	0.20	0.20	0.20	0.20	0.20	0.05	0.05	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.05	0.03	0.03	0.05	0.20	0.05	0.20
4	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.02	0.02	0.02	0.05	0.05
5	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.56	0.57	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.56	0.21	0.07	0.07	0.21	0.05	0.57
6	0.56	0.60	0.60	0.60	0.60	0.60	0.56	0.56	0.56	0.56	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.56	0.50	0.50	0.50	0.50	0.05	0.60
7	0.10	0.20	0.20	0.20	0.20	0.20	0.20	0.10	0.10	0.10	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.06	0.06	0.07	0.07	0.03	0.20
8	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.15	0.10	0.10	0.10	0.10	0.10	0.15	0.15	0.15	0.15	0.10	0.10	0.15	0.15	0.15	0.10	0.05	0.30
9	0.10	0.33	0.50	0.50	0.50	0.33	0.10	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.10	0.10	0.05	0.05	0.05	0.05	0.05	0.05	0.03	0.00	0.50
10	0.21	0.21	0.21	0.21	0.21	0.21	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.03	0.03	0.05	0.00	0.21
11	0.05	0.06	0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.03	0.03	0.03	0.05	0.05	0.06
12	0.03	0.11	0.11	0.11	0.20	0.20	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.20
13	0.05	0.05	0.05	0.06	0.06	0.07	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.03	0.07
14	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.00	0.05
15	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.02
16	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.01
17	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
18	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.03	0.01	0.03
19	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.03
20	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.02	0.02	0.02	0.03
21	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
22	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.03	0.00	0.04
23	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.01
24	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.03	0.03	0.03
25	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.01	0.01	0.01	0.02
26	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.03	0.03	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.03
27	0.05	0.05	0.05	0.05	0.05	0.05	0.07	0.13	0.13	0.13	0.13	0.13	0.13	0.07	0.07	0.05	0.05	0.05	0.05	0.05	0.05	0.03	0.05	0.05	0.13
28	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

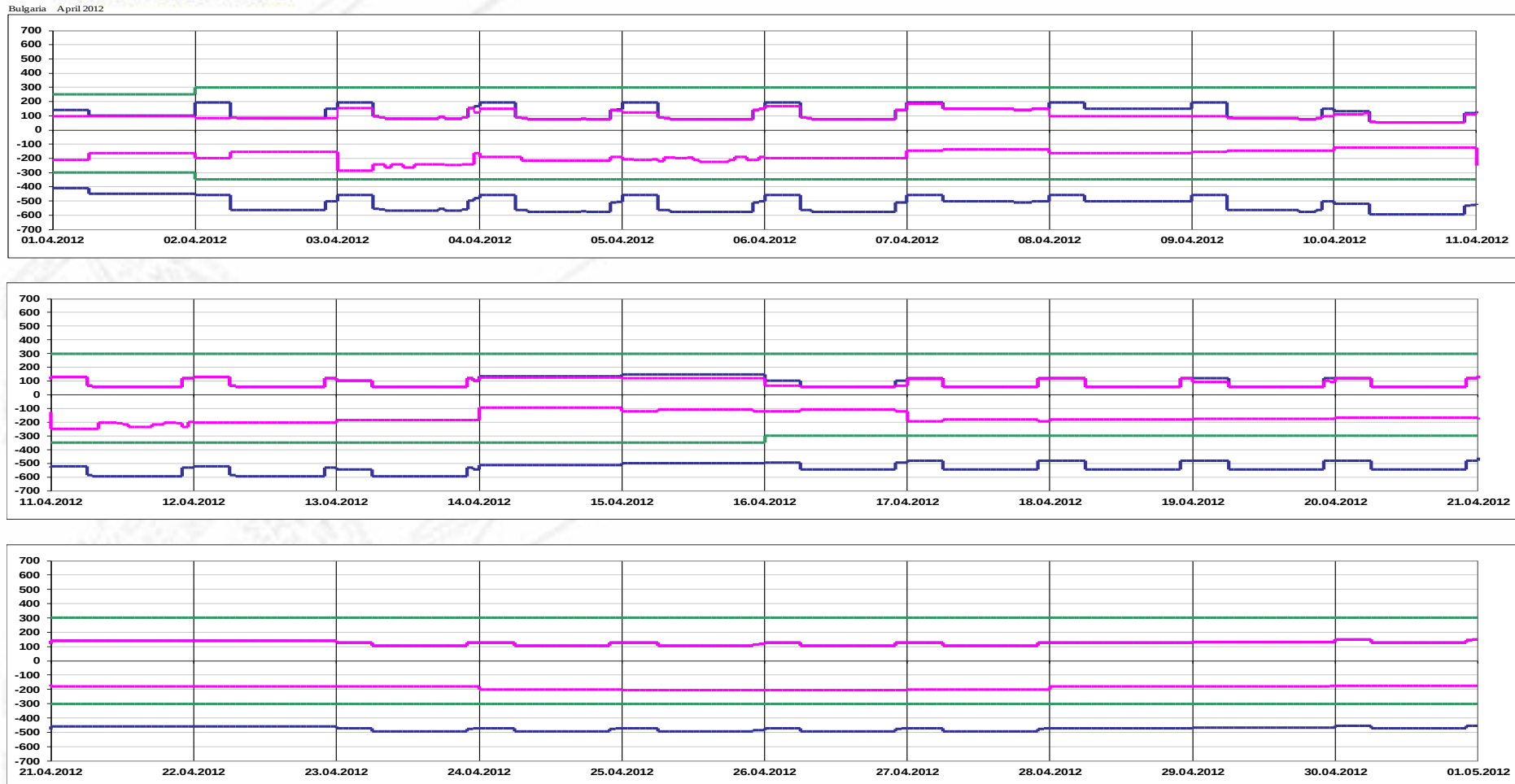
Hungary

April 2012

Public

Market for Allocation of Cross-Border Capacities

Daily Auctions on Romanian – Bulgarian border



Offered Capacity on Daily Auction Import (+) / Export (-) [MW]

Allocated Capacity on Daily Auction Import (+) / Export (-) [MW]

Net Transfer Capacity (NTC) Import (+) / Export (-) [MW]

Market for Allocation of Cross-Border Capacities

Daily Auctions on Romanian – Bulgarian border

Auction Price
[Euro/MW/h] – Import

day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Max
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.00	0.00	0.05
3	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.11	0.55	0.55	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.55	0.55	0.11	0.05	0.00	0.55
4	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.90	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11	1.11	0.35	0.35	0.02	0.00	1.11
5	0.00	0.00	0.00	0.00	0.00	0.00	1.55	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	0.05	0.05	1.87
6	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.05	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.06	0.05	0.05	0.11
7	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.02	0.02	0.02	0.03
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.01
10	0.00	0.00	0.00	0.00	0.00	0.00	0.55	0.55	3.00	3.00	3.00	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	3.00	3.00	0.00	0.00	3.00
11	2.00	2.00	2.00	2.00	2.00	2.00	7.00	17.00	17.00	17.00	20.00	20.00	20.00	20.00	12.56	11.50	11.50	11.50	17.00	20.00	20.00	17.00	2.00	0.05	20.00
12	0.05	0.05	0.05	0.05	0.05	0.05	17.30	23.00	23.00	23.00	23.00	23.00	23.00	17.30	17.30	17.30	17.30	17.30	17.30	20.00	20.00	17.30	0.05	0.05	23.00
13	0.05	0.05	0.05	0.05	0.05	0.05	0.10	2.56	3.50	3.50	3.50	0.10	0.10	0.10	0.10	0.10	0.10	0.10	2.56	3.50	3.50	1.11	0.03	0.05	3.50
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.00	0.00	0.03
17	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.00	0.00	0.03
18	0.00	0.00	0.00	0.00	0.00	0.00	1.35	1.85	1.85	1.85	1.85	1.85	6.75	1.85	6.75	6.75	1.85	1.85	1.85	1.85	1.85	1.85	0.05	0.05	6.75
19	0.00	0.00	0.00	0.00	0.00	0.00	3.50	6.25	6.30	6.25	6.00	6.00	6.30	6.30	6.30	6.30	6.30	6.30	6.30	7.00	7.00	6.25	0.00	0.00	7.00
20	0.03	0.03	0.03	0.03	0.03	0.03	5.54	7.56	7.56	7.56	7.56	6.56	6.61	0.67	0.67	0.67	0.67	0.67	6.31	7.56	7.56	7.56	0.03	0.03	7.56
21	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.05	0.05	0.05	0.02	0.02	0.02	0.02	0.02	0.02	0.05	0.05	0.05	0.05	0.02	0.02	0.05
22	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
23	0.05	0.05	0.05	0.05	0.05	0.05	0.48	0.50	0.99	1.01	1.01	1.01	1.01	0.50	0.50	0.50	0.50	0.50	0.50	1.01	1.01	1.01	0.09	0.05	1.01
24	0.30	0.30	0.30	0.30	0.30	0.30	0.97	2.10	3.02	2.50	2.50	2.00	2.00	1.21	0.36	0.36	0.30	0.30	1.65	1.80	3.02	0.36	0.16	0.16	3.02
25	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.10	0.03	0.03	0.03	0.10
26	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.01	0.01	0.05	
27	0.03	0.03	0.03	0.03	0.03	0.03	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.03	0.03	0.05
28	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
29	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
30	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01

Bulgaria

April 2012

Public

Market for Allocation of Cross-Border Capacities

Statistics on Monthly Auction

April 2012		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Hungary export	Number of Participants	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
	Number of Capacity Holders	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
	Number of Bids	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
Hungary import	Number of Participants	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19
	Number of Capacity Holders	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
	Number of Bids	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61
Bulgaria export	Number of Participants	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Number of Capacity Holders	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	Number of Bids	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Bulgaria import	Number of Participants	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Number of Capacity Holders	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	Number of Bids	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Serbia export	Number of Participants	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
	Number of Capacity Holders	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
	Number of Bids	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37
Serbia import	Number of Participants	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
	Number of Capacity Holders	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	Number of Bids	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
Ukraine export	Number of Participants	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0
	Number of Capacity Holders	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0
	Number of Bids	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0
Ukraine import	Number of Participants	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
	Number of Capacity Holders	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
	Number of Bids	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24

April 2012	Maxim	Minim
Number of Participants	19	7
Number of Capacity Holders	10	3
Number of Bids	61	24

Note: Information regarding number of participants and number of bids on Bulgarian border are not detained by the Romanian TSO

Market for Allocation of Cross-Border Capacities

Statistics on Daily Auctions

April 2012		Daily Auctions																													
Hungary Export	Number of Participants	5	7	12	11	11	11	9	7	6	7	12	10	11	9	8	10	8	11	9	9	10	6	7	11	9	8	9	8	5	7
	Number of Capacity Holders	5	6	8	10	9	9	8	7	6	6	7	9	8	8	6	7	6	9	8	7	7	6	6	9	6	7	7	7	5	7
	Number of Bids	14	15	21	18	20	17	18	10	10	16	27	22	23	24	20	23	19	30	26	22	26	17	20	28	21	21	20	19	7	9
Hungary Import	Number of Participants	5	5	9	9	9	10	9	9	8	8	8	8	8	8	7	7	7	8	9	9	8	6	6	7	8	9	11	9	6	6
	Number of Capacity Holders	5	5	8	7	8	6	6	7	8	6	7	7	7	8	7	7	7	8	8	7	6	6	7	8	9	9	7	6	6	
	Number of Bids	7	6	12	13	22	17	17	12	13	13	14	15	15	15	13	13	15	16	19	19	20	14	14	15	18	17	21	17	7	7
Bulgaria Export	Number of Participants	4	4	7	6	5	5	5	4	4	3	5	4	4	3	4	4	4	4	4	4	4	4	4	4	4	5	4	3	3	3
	Number of Capacity Holders	4	4	6	6	5	5	5	4	4	3	5	4	4	3	4	4	4	4	4	4	4	4	4	4	4	5	4	3	3	3
	Number of Bids	7	7	8	7	8	6	6	5	5	4	6	5	5	3	5	5	9	9	7	6	8	8	7	7	7	8	7	6	8	8
Bulgaria Import	Number of Participants	3	3	7	7	8	7	5	3	4	5	8	7	7	4	3	3	5	7	6	6	5	5	5	8	5	4	6	4	4	4
	Number of Capacity Holders	3	3	5	5	8	5	4	3	4	5	6	5	5	4	3	3	5	6	5	5	5	4	5	5	5	4	4	3	4	4
	Number of Bids	5	5	10	10	11	8	9	4	5	6	13	11	8	6	5	4	7	10	8	9	11	10	11	17	10	9	8	9	9	9

Note:

- In the table are represented the daily maximum hourly values.

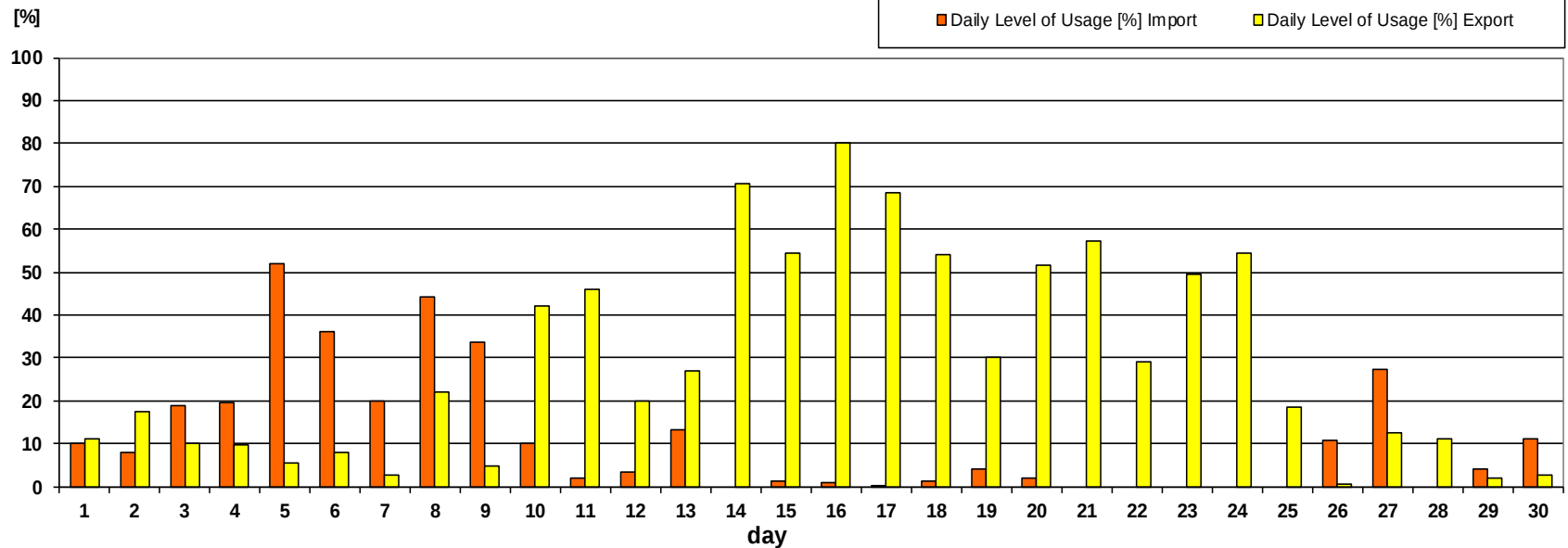
Market for Allocation of Cross-Border Capacities

Daily Auctions on Romanian – Hungarian border

Usage Level of Daily Allocated Capacity

Hungary

April 2012



Daily Level of Usage [%]

April 2012	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Import	10.16	7.86	19.00	19.59	52.11	36.10	19.81	44.24	33.52	9.94	2.09	3.26	13.29	0.00	1.26	0.81	0.33	1.10	3.99	1.86	0.00	0.00	0.00	0.00	0.00	10.89	27.13	0.00	4.15	11.09
Export	11.04	17.51	10.16	9.51	5.30	7.89	2.70	22.06	4.87	42.07	45.92	19.97	27.09	70.67	54.37	79.96	68.54	54.17	30.00	51.54	57.19	28.95	49.48	54.26	18.34	0.43	12.49	11.14	1.99	2.74

Level of usage of daily allocated capacity, calculated at monthly level, as ratio between sum of nominated daily capacities and sum of daily allocated capacities, has the following values:

- Import 10.06 [%]
- Export 28.48 [%]

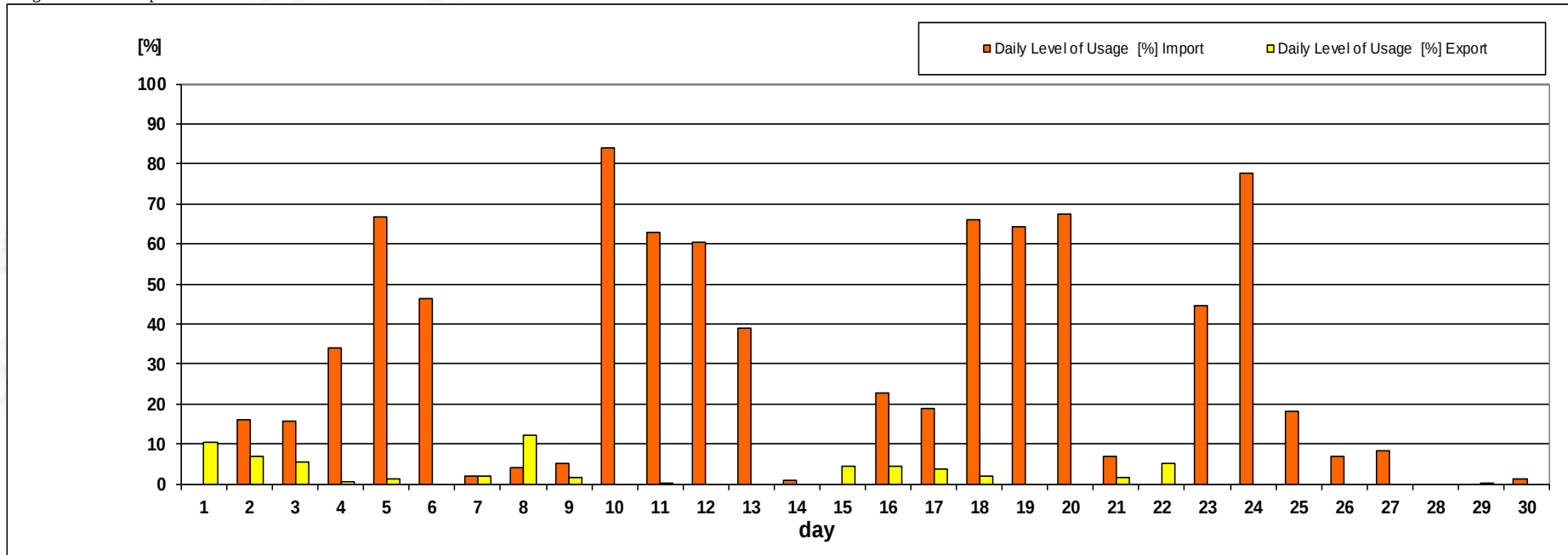
Market for Allocation of Cross-Border Capacities

Daily Auctions on Romanian – Bulgarian border

Usage Level of Daily Allocated Capacity

Bulgaria

April 2012



Daily Level of Usage [%]

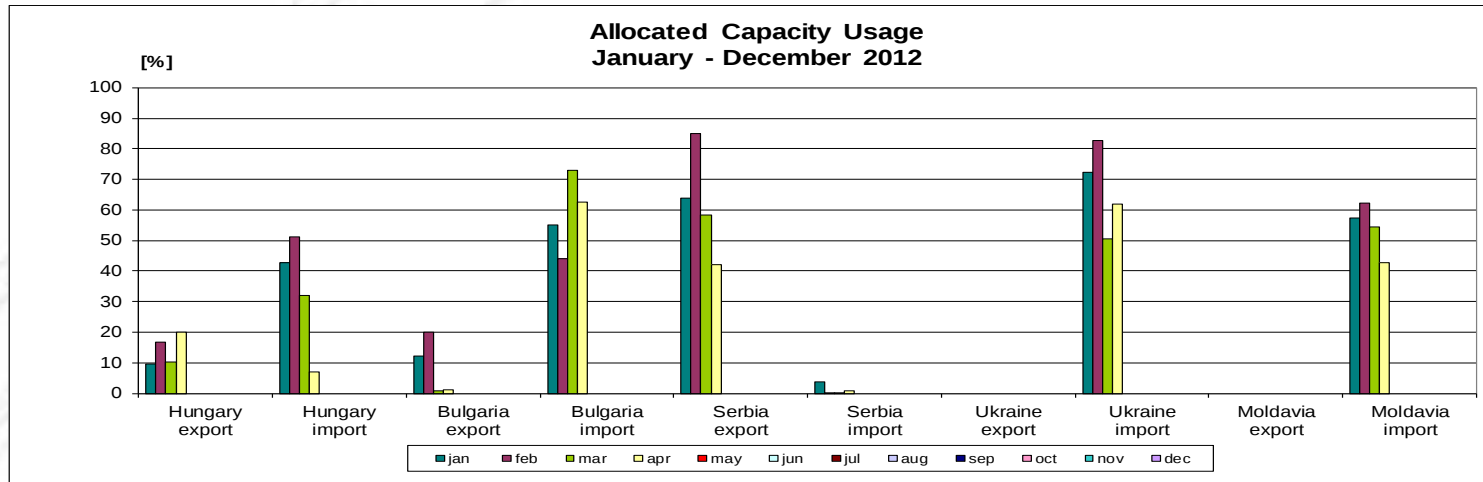
April 2012	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Import	0.00	15.92	15.75	33.97	66.84	46.26	1.85	3.95	5.26	83.85	62.83	60.31	39.06	0.83	0.00	22.84	18.88	65.98	64.11	67.55	6.70	0.00	44.64	77.68	18.29	6.70	8.18	0.00	0.00	1.32
Export	10.40	6.77	5.37	0.69	1.34	0.00	1.82	12.12	1.69	0.00	0.13	0.00	0.00	0.00	4.55	4.55	3.60	1.85	0.00	0.00	1.45	5.16	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00

Level of usage of daily allocated capacity, calculated at monthly level, as ratio between sum of nominated daily capacities and sum of daily allocated capacities, has the following values:

- Import 24 [%]
- Export 1.97 [%]

Public

Market for Allocation of Cross-Border Capacities



Type A

calculation:

The allocated capacity level of usage on one border and direction represents the percentage ratio between the energy associated with the commercial transactions, notified during a month, and the energy associated with the allocated capacity by the Romanian and by the neighbouring side, but only to those participants who have counterparties on the other side of the border.

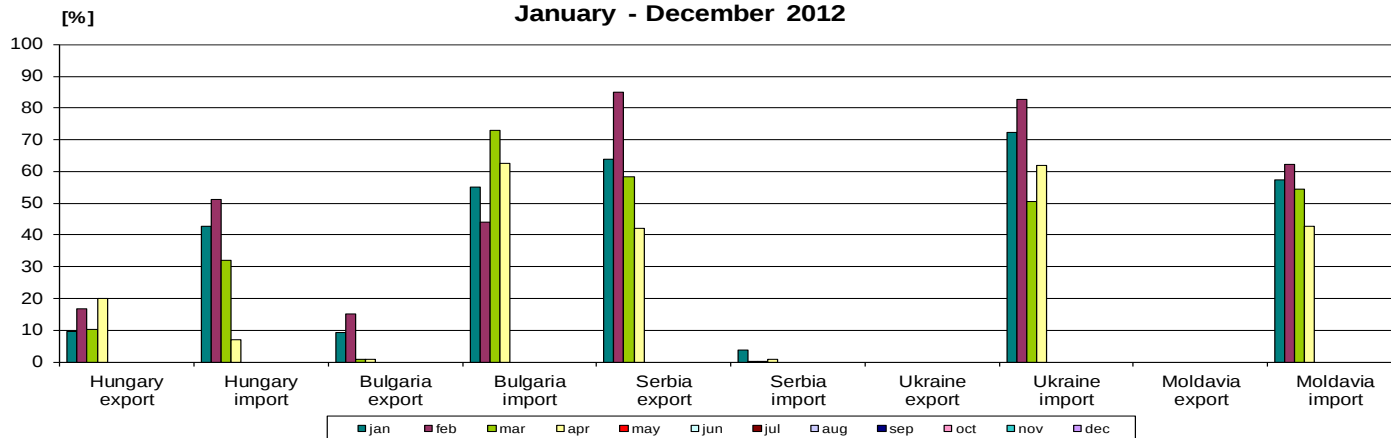
[%]	Hungary export	Hungary import	Bulgaria export	Bulgaria import	Serbia export	Serbia import	Ukraine export	Ukraine import	Moldavia export	Moldavia import
jan	9.60	42.62	12.29	55.10	63.80	3.88	0.00	72.31	-	57.34
feb	16.79	51.17	20.11	44.07	85.01	0.28	0.00	82.85	-	62.18
mar	10.25	32.01	0.91	73.02	58.34	0.17	0.00	50.67	-	54.54
apr	20.05	7.00	1.00	62.71	42.05	0.82	0.00	62.06	-	42.82
may										
jun										
jul										
aug										
sep										
oct										
nov										
dec										
average	14.17	33.20	8.58	58.73	62.30	1.29	0.00	66.97	-	54.22

Type A

Applying type A of calculation, in April, the highest level of usage is obtained on the import direction from Bulgaria (63%) and on the import direction from Ukraine (62%). Compared with previous month it can be noticed a decrease of the usage level on Romania – Serbia and Hungary - Romania border directions and an increase of the usage level on Romania – Hungary border direction.

Market for Allocation of Cross-Border Capacities

**Allocated Capacity Usage
January - December 2012**



[%]	Hungary export	Hungary import	Bulgaria export	Bulgaria import	Serbia export	Serbia import	Ukraine export	Ukraine import	Moldavia export	Moldavia import
jan	9.60	42.62	9.12	55.10	63.80	3.88	0.00	72.31	-	57.34
feb	16.79	51.17	15.17	44.07	85.01	0.28	0.00	82.85	-	62.18
mar	10.25	32.01	0.68	73.02	58.34	0.17	0.00	50.67	-	54.54
apr	20.05	7.00	0.77	62.71	42.05	0.82	0.00	62.06	-	42.82
may										
jun										
jul										
aug										
sep										
oct										
nov										
dec										
average	14.17	33.20	6.43	58.73	62.30	1.29	0.00	66.97	-	54.22

Type B

Type B

calculation:

The allocated capacity level of usage on one border and direction represents the percentage ratio between the energy associated with the commercial transactions, notified during a month, and the energy associated with the allocated capacity by the Romanian and by the neighbouring side, to all participants, no matter if they have counterparties on the other side of the border or not.

Applying type B of calculation, the level of usage has a lower value on export direction to Bulgaria, this being the only difference from type A of calculation. Calculations were made using the results submitted by the neighboring TSOs.

Market for Allocation of Cross-Border Capacities

Synthesis (C1, C3, HHI) on type of auction and total values

April 2012

Border	Auction												Total		
	Yearly			Monthly			Daily			Intraday					
	C1 [%]	C3 [%]	HHI	C1 [%]	C3 [%]	HHI	C1 [%]	C3 [%]	HHI	C1 [%]	C3 [%]	HHI	C1 [%]	C3 [%]	HHI
Hungary import	34.48	86.21	2865.64	24.61	61.91	1609.57	33.29	71.52	2013.93	-	-	-	18.74	38.77	877.93
Hungary export	25.64	66.67	1742.27	19.51	48.78	1267.10	35.75	72.10	2080.69	100.00	100.00	10000.00	19.55	43.52	928.88
Bulgaria import	35.33	75.33	2279.11	57.92	98.85	4218.80	26.08	70.09	1960.53	-	-	-	20.71	48.63	1183.46
Bulgaria export	57.89	89.47	4113.57	40.91	95.45	3347.11	50.84	83.07	3273.41	-	-	-	23.06	53.46	1308.24
Serbia import	40.00	70.00	2400.00	40.00	90.00	3000.00	-	-	-	-	-	-	30.00	63.33	1866.67
Serbia export	49.33	93.33	3454.22	29.58	69.58	1935.07	-	-	-	-	-	-	26.98	66.35	1763.77
Ukraine import	46.00	96.00	3432.00	40.00	100.00	3408.00	-	-	-	-	-	-	39.00	84.00	2846.00
Ukraine export	40.00	90.00	3000.00	-	-	-	-	-	-	-	-	-	40.00	90.00	3000.00
Moldavia import	71.43	100.00	5918.37	-	-	-	-	-	-	-	-	-	71.43	100.00	5918.37

- Serbian border contains only results from auctions organized by the Romanian TSO.



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